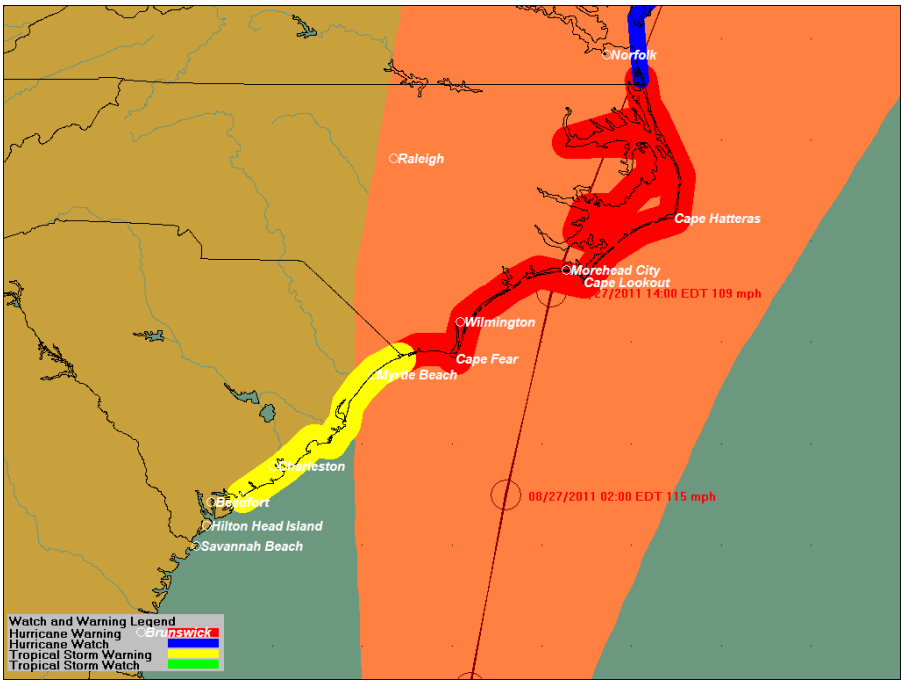


Description of impact to Wilmington, NC

Wilmington, NC is expected to receive a moderate impact from Hurricane IRENE.

Northeasterly gale force winds should start affecting the area on Friday, August 26th at 3 PM EDT with storm force winds arriving around 4 AM. The highest wind speeds from Hurricane IRENE should occur near 9 AM when top sustained winds, from the North, could reach 73 MPH with gusts near 91 MPH. Winds should decrease below storm force 6 hours later.

Sustained winds will fall below gale force after 10 PM and generally be from the North during this period of decreasing winds. Expect gusts above gale force level for several more hours thereafter.

Wind damage from Hurricane IRENE could include some loss of roofing material, gutters and/or awning and loss of vinyl or metal siding.

The total rainfall for the Wilmington area over the next 3 days is forecast to be 8.4 inches. This can vary significantly as tropical storm and hurricane rainfall is very difficult to predict.

Latest Position: 500 mi. South (176 degrees) of Wilmington, NC

Latitude	Longitude	Motion (mph)	Wind Speed (MPH)	Central Pressure (in.)	74 mph NE	74 mph SE	74 mph SW	74 mph NW	58 mph NE	58 mph SE	58 mph SW	58 mph NW	39 mph NE	39 mph SE	39 mph SW	39 mph NW	Eye diam	Eye wall
27.0	-77.3	350/12	115	28.04	70	60	25	50	110	100	50	75	250	200	125	160	18	9

Watches and Warnings

Hurricane Warning from Pamilco-a, NC to Pamlico-b, NC
Hurricane Warning from Albemarle-a, NC to Albemarle-b, NC
Hurricane Warning from Surf City, NC to NC/VA State Line, NC
Hurricane Warning from Little River Inlet, SC to Surf City, NC
Tropical Storm Warning from Edisto Beach, SC to Little River Inlet, SC
Hurricane Watch from Delaware Bay-a, DE to Delaware Bay-b, DE
Hurricane Watch from NC/VA State Line, NC to Sandy Hook, NJ

Official Forecast

Hour	Date (UTC)	Time (UTC)	Latitude	Longitude	Wind Speed (MPH)	74 mph NE	74 mph SE	74 mph SW	74 mph NW	58 mph NE	58 mph SE	58 mph SW	58 mph NW	39 mph NE	39 mph SE	30 mph SW	39 mph NW
Initial	08/25/2011	2100	27	-77.3	115	070	060	025	050	110	100	050	075	250	200	125	160
12	08/26/2011	0600	28.7	-77.8	115	070	060	025	050	110	100	050	075	250	200	125	160
24	08/26/2011	1800	30.6	-77.8	121	070	060	025	050	110	100	050	075	250	200	125	160
36	08/27/2011	0600	32.5	-77.4	115	070	060	025	050	110	100	050	075	250	200	125	160
48	08/27/2011	1800	34.5	-76.9	109					120	120	060	075	270	240	140	140
72	08/28/2011	1800	39.8	-74.6	86					120	120	060	075	270	270	140	140
96	08/29/2011	1800	48.5	-68	58												
120	08/30/2011	1800	56	-54	52												

Strike Probabilities for Wilmington, NC

TOTAL	Next 24 hours	24 - 36 hours	36- 48 hours	48-72 hours
25	1	19	5	0

Surge Probabilities for Wilmington, NC (5 mi. East)

5 Foot Storm Surge	10 Foot Storm Surge	15 Foot Storm Surge	20 Foot Storm Surge
24%	5%	0%	0%

Forecast Impact Summary for Wilmington, NC

Max Wind (avg/gust)	Max Wind Date/Time	CPA	Rain		Arr. hrs.	Time of arrival	Time of departure	Duration
73 / 91 mph.	Saturday, 08/27/2011 09:30 EDT	53 mi.	8.4"	39 mph	22	08/26/2011 15:30 EDT	08/27/2011 22:00 EDT	32
				58 mph	35	08/27/2011 04:00 EDT	08/27/2011 15:00 EDT	12

Forecast Impact Detail

Date / Time	Time of Day	Wind Speed (avg/gust)	Wind Dir. (degs.)	Distance to 39 mph winds (mi.)	Distance to 58 mph winds (mi.)	Distance to 74 mph winds (mi.)	Distance to center (mi.)	Comments
Friday, 08/26/2011 15:30 EDT	DAY	039/049 mph	063		0128	0165	0233	Minor damage
Friday, 08/26/2011 16:00 EDT	DAY	040/050 mph	062		0122	0159	0228	Minor damage
Friday, 08/26/2011 16:30 EDT	DAY	041/051 mph	062		0117	0154	0222	Minor damage
Friday, 08/26/2011 17:00 EDT	DAY	041/052 mph	062		0112	0149	0216	Minor damage
Friday, 08/26/2011 17:30 EDT	DAY	042/053 mph	061		0107	0144	0212	Minor damage
Friday, 08/26/2011 18:00 EDT	DAY	043/054 mph	061		0101	0138	0206	Minor damage
Friday, 08/26/2011 18:30 EDT	DAY	044/054 mph	061		0096	0132	0200	Minor damage
Friday, 08/26/2011 19:00 EDT	DAY	044/055 mph	060		0091	0128	0196	Minor damage
Friday, 08/26/2011 19:30 EDT	DAY	045/056 mph	060		0085	0122	0190	Minor damage
Friday, 08/26/2011 20:00 EDT	NIGHT	046/057 mph	059		0081	0116	0184	Minor damage
Friday, 08/26/2011 20:30 EDT	NIGHT	047/058 mph	059		0076	0112	0180	Minor damage
Friday, 08/26/2011 21:00 EDT	NIGHT	047/059 mph	058		0070	0107	0174	Minor damage
Friday, 08/26/2011 21:30 EDT	NIGHT	048/060 mph	058		0066	0101	0168	Minor damage
Friday, 08/26/2011 22:00 EDT	NIGHT	049/061 mph	057		0060	0097	0164	Minor damage
Friday, 08/26/2011 22:30 EDT	NIGHT	049/062 mph	057		0055	0091	0158	Minor damage
Friday, 08/26/2011 23:00 EDT	NIGHT	050/063 mph	056		0051	0086	0153	Minor damage
Friday, 08/26/2011 23:30 EDT	NIGHT	051/064 mph	055		0045	0081	0147	Minor damage
Saturday, 08/27/2011 00:00 EDT	NIGHT	052/065 mph	055		0040	0076	0143	Minor damage
Saturday, 08/27/2011 00:30 EDT	NIGHT	052/066 mph	054		0036	0070	0137	Minor damage
Saturday, 08/27/2011 01:00 EDT	NIGHT	053/066 mph	053		0031	0067	0132	Minor damage
Saturday, 08/27/2011 01:30 EDT	NIGHT	054/067 mph	052		0026	0061	0127	Minor damage
Saturday, 08/27/2011 02:00 EDT	NIGHT	055/068 mph	051		0022	0056	0122	Minor damage
Saturday, 08/27/2011 02:30 EDT	NIGHT	055/069 mph	050		0016	0051	0116	Minor damage
Saturday, 08/27/2011 03:00 EDT	NIGHT	056/070 mph	048		0012	0046	0112	Minor damage
Saturday, 08/27/2011 03:30 EDT	NIGHT	057/071 mph	047		0007	0041	0106	Minor damage
Saturday, 08/27/2011 04:00 EDT	NIGHT	058/072 mph	045		0002	0037	0101	Minor damage
Saturday, 08/27/2011 04:30 EDT	NIGHT	059/074 mph	043			0031	0096	Minor damage
Saturday, 08/27/2011 05:00 EDT	NIGHT	061/076 mph	041			0028	0091	Minor damage
Saturday, 08/27/2011 05:30 EDT	NIGHT	063/078 mph	039			0023	0086	Minor damage
Saturday, 08/27/2011 06:00 EDT	NIGHT	064/080 mph	037			0020	0082	Minor damage
Saturday, 08/27/2011 06:30 EDT	NIGHT	066/083 mph	034			0015	0077	Minor damage
Saturday, 08/27/2011 07:00 EDT	DAY	068/085 mph	031			0013	0074	Minor damage
Saturday, 08/27/2011 07:30 EDT	DAY	069/086 mph	027			0009	0069	Minor damage
Saturday, 08/27/2011 08:00 EDT	DAY	070/088 mph	023			0007	0066	Minor damage
Saturday, 08/27/2011 08:30 EDT	DAY	071/089 mph	019			0005	0062	Minor damage
Saturday, 08/27/2011 09:00 EDT	DAY	072/090 mph	014			0003	0060	Minor damage
Saturday, 08/27/2011 09:30 EDT	DAY	073/091 mph	009			0002	0056	Minor damage
Saturday, 08/27/2011 10:00 EDT	DAY	073/091 mph	003			0002	0055	Minor damage
Saturday, 08/27/2011 10:30 EDT	DAY	073/091 mph	357			0001	0053	Minor damage
Saturday, 08/27/2011 11:00 EDT	DAY	072/090 mph	351			0003	0053	Minor damage
Saturday, 08/27/2011 11:30 EDT	DAY	072/090 mph	345			0005	0053	Minor damage
Saturday, 08/27/2011 12:00 EDT	DAY	070/088 mph	338			0007	0053	Minor damage
Saturday, 08/27/2011 12:30 EDT	DAY	069/087 mph	332			0009	0054	Minor damage
Saturday, 08/27/2011 13:00 EDT	DAY	068/085 mph	326			0013	0056	Minor damage
Saturday, 08/27/2011 13:30 EDT	DAY	066/083 mph	321			0016	0059	Minor damage
Saturday, 08/27/2011 14:00 EDT	DAY	064/080 mph	316			0020	0061	Minor damage
Saturday, 08/27/2011 14:30 EDT	DAY	061/076 mph	310			0026	0067	Minor damage
Saturday, 08/27/2011 15:00 EDT	DAY	058/073 mph	306			0033	0073	Minor damage
Saturday, 08/27/2011 15:30 EDT	DAY	057/071 mph	302		0007	0040	0078	Minor damage
Saturday, 08/27/2011 16:00 EDT	DAY	055/069 mph	299		0014	0048	0085	Minor damage
Saturday, 08/27/2011 16:30 EDT	DAY	054/067 mph	296		0022	0056	0092	Minor damage
Saturday, 08/27/2011 17:00 EDT	DAY	052/065 mph	293		0030	0063	0099	Minor damage

Date / Time	Time of Day	Wind Speed (avg/gust)	Wind Dir. (degs.)	Distance to 39 mph winds (mi.)	Distance to 58 mph winds (mi.)	Distance to 74 mph winds (mi.)	Distance to center (mi.)	Comments
Saturday, 08/27/2011 17:30 EDT	DAY	050/063 mph	291		0037	0071	0106	Minor damage
Saturday, 08/27/2011 18:00 EDT	DAY	049/061 mph	289		0044	0078	0113	Minor damage
Saturday, 08/27/2011 18:30 EDT	DAY	048/060 mph	288		0050	0085	0121	Minor damage
Saturday, 08/27/2011 19:00 EDT	DAY	047/058 mph	286		0055	0091	0128	Minor damage
Saturday, 08/27/2011 19:30 EDT	DAY	045/057 mph	285		0063	0099	0136	Minor damage
Saturday, 08/27/2011 20:00 EDT	NIGHT	044/055 mph	284		0069	0105	0143	Minor damage
Saturday, 08/27/2011 20:30 EDT	NIGHT	043/054 mph	283		0076	0113	0151	Minor damage
Saturday, 08/27/2011 21:00 EDT	NIGHT	042/052 mph	282		0083	0120	0159	Minor damage
Saturday, 08/27/2011 21:30 EDT	NIGHT	041/051 mph	281		0090	0127	0166	Minor damage
Saturday, 08/27/2011 22:00 EDT	NIGHT	039/049 mph	280		0097	0134	0174	Minor damage